Tagged Tank Blocks for the Detection of Tank Material in Glass, by W. Jahn.

GERMAN, per, Glastechnische Berichte, Vol XXXII, No 3, 1959, pp 103-106.

ATS-60N55G

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Vol VII, No 2

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Scholze, H.
THE TRANSMISSION OF GLASSES IN THE NEAR INFRARED AT TEMPERATURES UP TO FREEZING POINT (Die Durchlässigkeit von Gläsern in Nahern Ultrarot bei Temperaturen bis zum Einfrierbereich). [1962] [15]p. (foreign text included) 17 refs.
Order from SLA $1.60 62-16142

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, p. VII/1-VII/5.

DESCRIPTORS: *Glass, Optics, Transmission, Infrared radiation, *Infrared spectroscopy, *Temperature, Hydroxides, Silicon compounds.

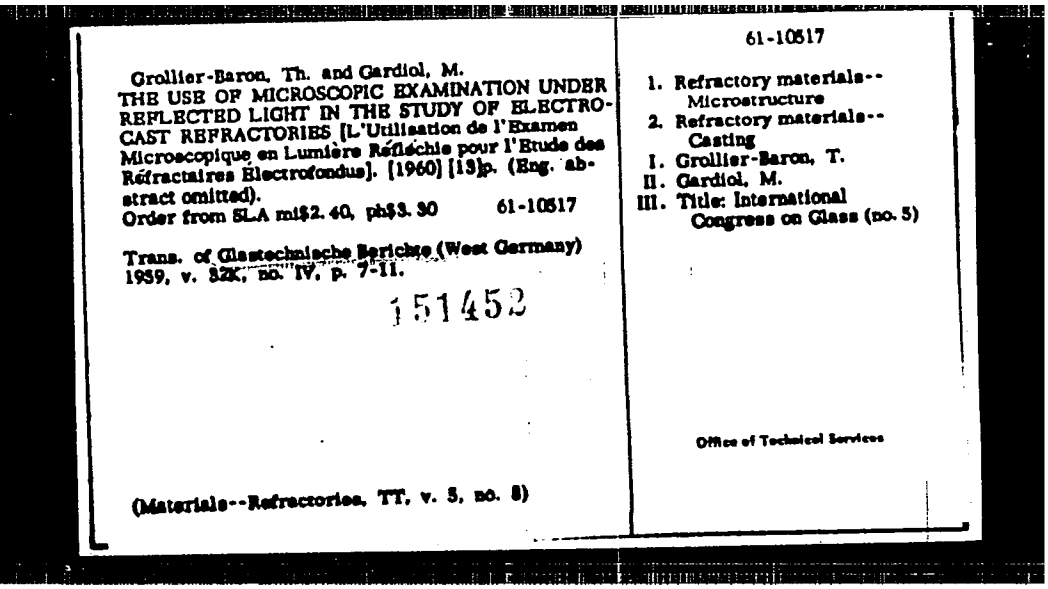
The transmission of glasses in the near infra-red depends on the bands at 2.7 2.9 $\mu$ due to free OH-groups, and of bands at 3.3 3.9 $\mu$ and 4.25 $\mu$ due to bound OH-groups. The intensity of radiation in these bands decreases with rising temperature. Whereas (Materials--Ceramics, TT, v. 8, no. 7) (over)

62-16142

I. Scholze, H.
II. Title: International Congress on Glass (no. 5)
III. Title: Internationaler G Glaskongress (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Grollier-Baron, Th. and Gardiol, M.
THE USE OF MICROSCOPIC EXAMINATION UNDER REFLECTED LIGHT IN THE STUDY OF ELECTRO-CAST REFRACTORIES [L'Utilisation de l'Examen Microscopique en Lumière Réfléchie pour l'Etude des Réfractaires Electrofondus]. [1960] [13]p. (Eng. abstract omitted).
Order from SLA mi$2.40, ph$3.90 61-10517

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, no. IV, p. 7-11.

151452

(Materials--Refractories, TT, v. 5, no. 8)

61-10517

1. Refractory materials--Microstructure
2. Refractory materials--Casting
I. Grollier-Baron, T.
II. Gardiol, M.
III. Title: International Congress on Glass (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Trier, W.
VISCOSITY DISTRIBUTION AND FLOW OF GLASS IN PREFORMERS. [1962] 33p. 20 refs.
Order from SLA $3.60 62-14252

Trans. of Glastechn[isache] Ber[ichte] (West Germany) 1959, v. 32K, p. II/17-II/25.

DESCRIPTORS: *Glass, *Viscosity, Distribution, Molding, Bubbles, Deformation, Cooling, Configuration, Liquids, Solids, Melting, Drawing (Machine processing), Production, Compressed air, Blowers, *Ceramic materials.

An apparatus for measuring the viscosity distribution in the glass in a preformer is described. A fine steel needle forced through the glass leaves behind a fine bubble trace of well-defined shape in the glass. The viscosity distribution can be derived from the deforma-
(Materials--Ceramics, TT, v. 9, no. 5) (over)

62-14252

I. Trier, W.
II. Title: International Congress on Glass (no. 5)
III. Title: Internationaler Glaskongress (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Patel, M. Raymond.
CONTRIBUTION TO THE DETERMINATION OF COEFFICIENTS OF SIMILITUDE OF MODELS OF GLASS FURNACES, FOR STUDYING CURRENTS IN GLASS. [1960] 12p. (Eng. abstract omitted) 6 refs.
Order from SLA mi$2.40, ph$3.30 61-10515

Trans. of Glastechnische Berichte (West Germany) [1959] v. 32K, no. IV, p. 30-34.

151/436

(Materials--Ceramics, TT, v. 5, no. 8)

61-10515

1. Furnaces--Model test results
2. Glass--Melting
I. Patel, M. R.
II. Title: International Congress on Glass (no. 5).

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Léger, L.
DIMENSIONAL ANALYSIS AND ITS APPLICATION TO PROBLEMS OF GLASS TECHNOLOGY (L'Analyse Dimensionnelle (Application à des Problèmes de Technologie Verrière)). [1960] [35]p. 8 refs.
Order from SLA mi$3.00, pt$6.30 61-10516

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, no. IV, p. 34-37.

151437

(Materials--Ceramics, TT, v. 5, no. 8)

61-10516

1. Glass--Melting
2. Furnaces--Model test results
3. Title: Dimensional analysis
I. Leger, L.
II. Title: International Congress on Glass (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Investigation and Appraisla of Glass Melting Tanks on the Basis of Energy Balances, by I. Hubmann-Kotz, 6 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXII, 1959, pp 47-53.

CSIRO

Sci - Phys
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174,381

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Merker, Ludwig and Wondratschek, Hans.
SOME PHYSICAL PROPERTIES OF LEAD SILICATE GLASSES WITH A HIGH SULFATE CONTENT (Einige Physikalische Eigenschaften von Bleisilikat-Gläsern mit Hohem Sulfatgehalt). [1962] [17]p. (foreign text included) 12 refs.
Order from SLA $1.60 62-16138

Trans. of Glastechn[ische] Berichte (West Germany) 1959, v. 32, no. 2, p. 54-58.

DESCRIPTORS: *Glass, *Lead compounds, *Silicates, *Sulfates, Chemical analysis, Physical properties, Production.

The density, thermal expansion, transformation point, and softening temperature, surface tension and refraction of light are measured on lead silicate glasses with a high sulfate content and compared with (Materials--Ceramics, TT, v. 8, no. 6) (over)

62-16138

I. Merker, L.
II. Wondratschek, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Gailhbaud, J.
HEAT BALANCE OF A GLASS-MELTING FURNACE AND RECENT DEVELOPMENTS (Bilan Thermique d'un Four de Verrerie et Développements Récents). [1962] [21]p. (foreign text included) 10 refs.
Order from SLA $1.60 62-10931

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32K, p. II/49-II/53.

DESCRIPTORS: *Glass, *Melting, *Heat transfer, Design, Fuel consumption, Economics, Heat exchangers

(Materials--Ceramics, TT, v. 9, no. 1)

62-10931

I. Title: Tank furnaces
I. Gailhbaud, J.
II. Title: International Congress on Glass (no. 5)
III. Title: Internationaler Glaskongress (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Malarme, Louis.
SODIUM CARBONATE HYDRATION PHENOMENA INSIDE THE BATCH: HOW TO AVOID SEGREGATION OF THE CONSTITUENTS (Recherches sur les Phenomenes d'Hydratation du Carbonate de Soude au Sein de la Composition, en Vue d'Eviter la Segregation de ses Constituants). [1962] [64]p. (foreign text included)
8 refs.
Order from SLA $6.60 62-14506

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, p. II/57-II/73.

DESCRIPTORS: *Sodium compounds, *Carbonates, *Glass, Manufacturing methods, Liquids, Mixtures, Solubility, Sand, Dolomite, Calcite, Feldspar, Sulfates, Particles, Moisture, Transformations.

(Materials--Ceramics, TT, v. 8, no. 3)

62-14506

I. Malarme, L.
II. Title: How . . .
III. Title: International Congress on Glass (no. 5)
IV. Title: Internationaler Glaskongress (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Tagged Tank Blocks for the Detection of Tank Material in Glass, by W. Jahn.

GERMAN, per, Glastechnische Berichte, Vol XXXII, No 3, 1959, pp 103-106.

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Vol VII, No 2

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Weber-Klein, Paul.
MEASURING AND CONTROL METHODS IN GLASS WORKS. I. UNDERSTANDING MEASUREMENT AND CONTROL MAGNITUDES (Mess- und Regeltechnik in Glashütten. I. Erfassung von Mess- und Regelgrössen). [1962] [71]p. (foreign text included).
Order from SLA $7.60 62-16399

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 3, p. 107-120.

DESCRIPTORS: *Glass, Industrial plants, Measurement, Control, Instrumentation, Melting, Combustion chambers, Temperature control.

(Materials--Ceramics, TT, v. 8, no. 6)

62-16399

I. Weber-Klein, P.
II. Title: Understanding ...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Unger, Leopold.
DETERMINATION OF THE HEAT CONTENT AND THE AVERAGE TEMPERATURE OF BOTTLES DURING THE SHAPING PROCESS (Bestimmung des Warmeinhaltes und der Mittleren Temperatur von Flaschen Wlhrend des Formgebungsprozesses).
[1960] [20]p. 4 refs.
Order from SLA mi$2.40, ph$3.30 61-10504

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 4 [p. 153-157].

A calorimeter was developed which permits to determine the heat content of the glass to be processed, and meets the more rugged operational conditions without having to incur an important loss in precision. Measurements were made with the calorimeter at various types of glass and various machines. It was found that the escape of heat in the preliminary shape is almost the same with all types of machines, whereas the release of heat in the finished shape is

(Materials--Ceramics, TT, v. 5, no. 8) (over)

61-10504

1. Glass--Temperature
I. Unger, L.

151442

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Weber-Klein, Paul.
MEASURING AND CONTROL METHODS IN GLASS WORKS. II. MEASURING AND CONTROL DEVICES (Mess- und Regelungstechnik in Glashütten. II. Geräte zur Messung und Regelung). [1962] [74]p. (foreign text included) 80 refs.
Order from SLA $7.60 62-16398

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 4, p. 158-172.

DESCRIPTORS: *Glass, Industrial plants, Measurement, Control, Instrumentation, Melting, Temperature control, Combustion chambers.

(See also 62-16399)

(Materials--Ceramics, TT, v. 8, no. 6)

62-16398

I. Weber-Klein, P.
II. Title: Measuring ...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Gilard, P. and Gilboux, G.
RELATIONSHIP BETWEEN THE VARIOUS TEXTURES OF FUSED-CAST REFRACTORIES AND THEIR RESISTANCE TO ATTACK BY GLASS [Relation entre Differentes Textures d'un Bloc Refractaire Electrofondu et la Resistance a la Corrosion par le Verre]. [1960] [16]p. (Eng. abstract omitted) 10 refs.
Order from SLA mi$2.40, ph$3.30 61-10519

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, no. IV, p. 1-7.

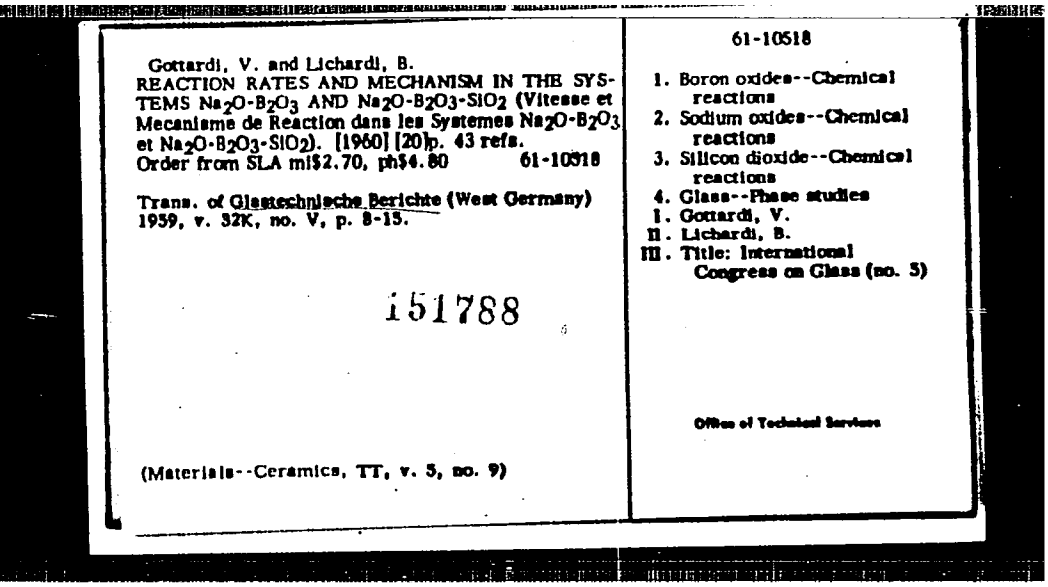
(Unannounced)

61-10519

1. Refractory materials--Casting
2. Glass--Corrosive effects
I. Gilard, P.
II. Gilboux, G.
III. Title: International Congress on Glass (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Gottardi, V. and Lichardi, B.
REACTION RATES AND MECHANISM IN THE SYSTEMS $Na_2O$-$B_2O_3$ AND $Na_2O$-$B_2O_3$-$SiO_2$ (Vitesse et Mecanisme de Reaction dans les Systemes $Na_2O$-$B_2O_3$ et $Na_2O$-$B_2O_3$-$SiO_2$). [1960] [20]p. 43 refs.
Order from SLA m$2.70, ph$4.80 61-10518

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32K, no. V, p. 8-15.

151788

(Materials--Ceramics, TT, v. 5, no. 9)

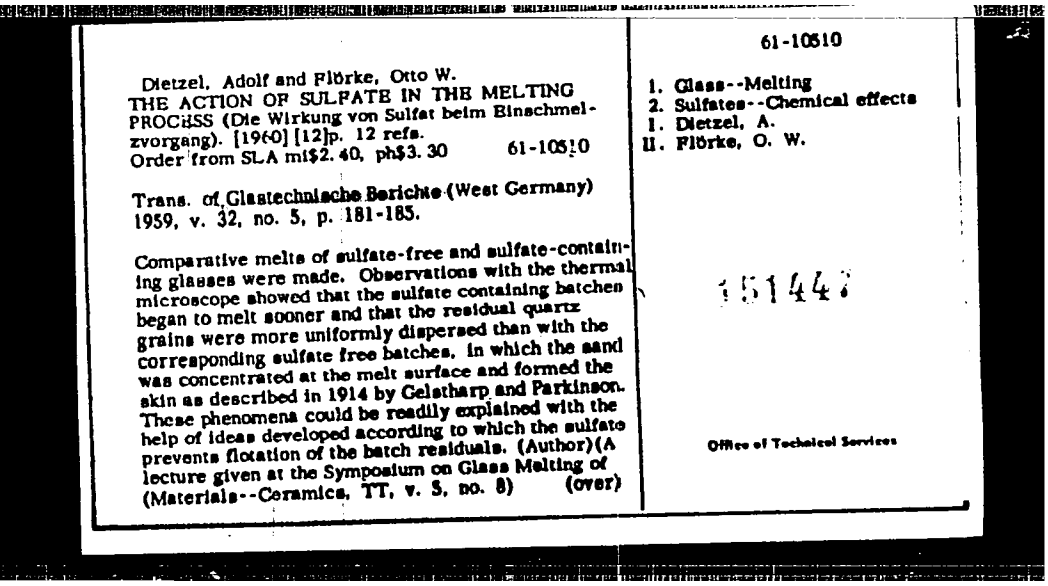
61-10518

1. Boron oxides--Chemical reactions
2. Sodium oxides--Chemical reactions
3. Silicon dioxide--Chemical reactions
4. Glass--Phase studies

I. Gottardi, V.
II. Lichardi, B.
III. Title: International Congress on Glass (no. 5)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Dietzel, Adolf and Flörke, Otto W.
THE ACTION OF SULFATE IN THE MELTING PROCESS (Die Wirkung von Sulfat beim Einschmelzvorgang). [1960] [12]p. 12 refs.
Order from SLA mi$2.40, ph$3.30 61-10510

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 5, p. 181-185.

Comparative melts of sulfate-free and sulfate-containing glasses were made. Observations with the thermal microscope showed that the sulfate containing batches began to melt sooner and that the residual quartz grains were more uniformly dispersed than with the corresponding sulfate free batches, in which the sand was concentrated at the melt surface and formed the skin as described in 1914 by Gelstharp and Parkinson. These phenomena could be readily explained with the help of ideas developed according to which the sulfate prevents flotation of the batch residuals. (Author)(A lecture given at the Symposium on Glass Melting of (Materials--Ceramics, TT, v. 5, no. 8) (over)

61-10510

1. Glass--Melting
2. Sulfates--Chemical effects
I. Dietzel, A.
II. Flörke, O. W.

151443

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

62-14249

Huhmann-Kotz, Ilse.
THE TRANSMISSION OF ENERGY IN GLASS BATCHES. [1962] [18]p. (10 figs. omitted) 15 refs.
Order from SLA $1.60 62-14249

I. Huhmann-Kotz, I.

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 5, p. 189-197.

DESCRIPTORS: *Glass, Thermal conductivity, Thermal radiation, Heat transfer, *Melting, Temperature, Flames, Tanks, Energy, Functions, Transmission, Thermodynamics, Analysis of variance, Production.

An introductory survey of the physical processes taking place in the batch is given, and the significance of restricting the investigation to thermal conduction and radiation is discussed. The physical basis of transfer by radiation is discussed in general terms and the most important general results of application to
(Materials--Ceramics, TT, v. 9, no. 5) (over)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Schmidt, Kurt.
GLASS TANKS AND THROATS (Wannenbecken und Durchlass von Glasschmelzöfen). Paper presented at HVG Colloquium on Glass Melting Furnaces, Frankfurt a. M., 23 Oct 58. [1962] [17]p. (foreign text included). Order from SLA $1.60 62-10944

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 6, p. 217-221.

DESCRIPTORS: *Glass, *Melting, Tanks, Oil-burning furnaces, Fuel consumption, Operation, Construction.

The influence of the length-width ratio, of the bath depth and of the throat construction on the operating behavior of various types of tanks is discussed on the basis of practical experiences. Standard dimensions have been developed in the course of time and proved expedient. Operating data of various tanks and the dimensions of the throats used are given on the basis of several examples. (Author)

62-10944

I. Schmidt, K.
II. Title: HVG Colloquium ...

(Materials--Ceramics, TT, v. 8, no. 6)
Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Meister, Rudolf.
GAS FLOW AND PRESSURE DISTRIBUTION IN GLASS FUSING FURNACES (Gasströmung und Druckverteilung in Glasschmelzöfen). [1960] [36]p. 9 refs.
Order from SLA mi$3.00, ph$6.30 61-10506

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 6, p. 221-231.

Under certain conditions specifically occurring in the glass industry a not inconsiderable change in the quantities of gas flowing in the furnace channels and in the upper furnace should be anticipated as a consequence of an unfavorable pattern of furnace pressure. (Enlarged version of a lecture held before the 32nd Symposium on Glass Technology, Freudenstadt, Germany, May 21, 1958)

(Materials--Ceramics, TT, v. 5, no. 8)

61-10506

1. Gas flow--Analysis
2. Glass--Products
3. Furnaces--Pressure distribution
I. [illegible]ster, R.

151444

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Greschat, K.-H.
HEATING AND HEAT-REGENERATION WITH GLASS MELTING TANKS (Beheizung und Wärmeregeneration bei Glasschmelzwannen). Paper presented at HVG Colloquium on Glass Melting Furnaces, Frankfurt a. M. 23 Oct 58. [1962] [33]p. (foreign text included) 16 refs. Order from SLA $3.60 62-10932

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 6, p. 231-239.

DESCRIPTORS: *Glass, Melting, *Oil-burning furnaces, Refractory materials, Construction, Fuel oils, Heating, Heat exchangers, Tanks.

(Materials--Ceramics, TT, v. 8, no. 6)

62-10932

I. Greschat, K.-H.
II. Title: HVG Colloquium...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Becker, Kurt.
WASTE HEAT BOILERS FOR GLASS MELTING TANKS. [1962] 7p. (13 figs. omitted).
Order from SLA $1.10 62-14248

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 6, p. 243-246.

DESCRIPTORS: *Glass, Melting, *Tanks, *Boilers, Heat transfer, Design.

(Materials--Ceramics, TT, v. 8, no. 4)

62-14248

1. Becker, K.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Wickert, Helmut.
SPECIAL TYPES OF GLASS MELTING FURNACES.
[1962] 10p. (9 figs. omitted) 14 refs.
Order from SLA $1.10 62-14246

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1959, v. 32, no. 6, p. 247-251.

DESCRIPTORS: *Glass, *Melting, Open hearth furnaces, Electric furnaces, Rotary furnaces, Construction, Design, Economics, Tanks, Refractory materials.

(Materials--Ceramics, TT, v. 9, no. 5)

62-14246

1. Title: Glass furnaces
I. Wickert, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Wondratschek, Hans.
A PROCESS FOR THE SIMULTANEOUS DETERMINATION OF VISCOSITY AND SURFACE TENSION IN GLASS AT RELATIVELY LOW TEMPERATURES (Ein Verfahren zur Gleichzeitigen Bestimmung von Zähigkeit und Oberflächenspannung an Gläsern bei Relativ Niedrigen Temperaturen). [1960] [8]p. 2 refs.
Order from SLA mi$1.80, ph$1.80 61-10503

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 7, p. 276-278.

The theory is developed for a process described by N. M. Parikh (J. Am. Ceram. Soc. 41: 18-22, 1950) for the determination of the surface tension in glass, and it is shown that the viscosity can be ascertained as an additional result of the measurement. (Author)

(Materials--Ceramics, TT, v. 5, no. 8)

61-10503

1. Glass--Viscosity
2. Glass--Surface tension
I. Wondratschek, H.

151441

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Stevels, J. M.
NETWORK DEFECTS IN CRYSTALLINE AND GLASSY SILICA (Netzwerkfehler in Kristallinischem und Glasigem $SiO_2$). Paper from Glass Technical Meeting (no. 33) Hamburg, 18 Mar 59. [1960] [27]p. (foreign text included) 20 refs.
Order from SLA mi$2.70, ph$4.80 61-10505

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 8, p. 307-313.

The combination of dielectric loss measurements at low temperatures, optical absorption measurements and paramagnetic resonance measurements is described by which it is possible to recognize and determine a number of network defects in glasses and quartz crystals.

(Materials--Ceramics, TT, v. 5, no. 8)

61-10505

1. Quartz crystals--Crystal structure
2. Glass--Crystal structure
I. Stevels, J. M.

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Office of Technical Services

Thermo-Chemical Studies in the System $Na_2O$-$SiO_2$. Part I, by C.Hummen, H. Schwiete.

GERMAN, per, Glastechnische Berichte, Vol XXXII, No 8, 1959, pp 327-335.

CSIRO

Sci - Chem, Engr
Apr 62

191,427

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Dietzel, Adolf and Coenen, Matthias.
CONNECTION BETWEEN WETTABILITY BY GLASS MELTS AND ELECTROCHEMICAL PROPERTIES OF THE NOBLE METALS. Paper presented at Glass Technical [meeting] (no. 32) Freudenstadt, 21 May 58. [1960] [18]p. 20 refs.
Order from SLA mi$2.40, ph$3.30 61-10509

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 9, p. 357-361.

Alloys of beryllium-platinum, gold-platinum and platinum-rhodium were studied. The wettability was measured by taking the angle of contact of molten sodium-lime glass on sheets of platinum alloys. Measurements were made of the anodic overvoltage in 1 N $H_2SO_4$, and the emf as O-electrode. The diffusion of O-atoms appeared as the reason for the connection between wettability and electrochemical properties. (See also 60-16252)

(Chemistry--Physical, TT, v. 5, no. 9)

61-10509

1. Electrochemistry
2. Diffusion--Theory
3. Glass--Temperature factors
4. Platinum alloys--Temperature factors

I. Dietzel, A.
II. Coenen, M.

152103

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

62-14244

Kröger, Carl and Eligehausen, Hans.
THE THERMAL CONDUCTIVITY OF THE MELTING GLASS BATCH. [1962] 23p. (16 figs. omitted) 16 refs.
Order from SLA $2.60 62-14244

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 9, p. 362-373.

DESCRIPTORS: *Glass, Melting, *Thermal conductivity, Manufacturing methods.

(Materials--Ceramics, TT, v. 9, no. 1)

I. Kröger, C.
II. Eligehausen, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Bhattacharya, A. and Wille, R.
INFLUENCE OF NEEDLES ON FREE JET BLAST COOLING OF SHORT CYLINDERS. [1961] 7p.
Order from ATS $9.35 ATS-68N52G

Trans. of Glastech[nische] Ber[ichte] (West Germany) 1959, v. 32, no. 10, p. 397-401.

DESCRIPTORS: *Cylindrical bodies, Cooling

(Physics--Thermodynamics, TT, v. 6, no. 6)

61-25033

I. Bhattacharya, A.
II. Wille, R.
III. ATS-68N52G
IV. Associated Technical Services, Inc., East Orange, N. J.

SLA 62-1425

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Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Deeg, Emil.
CALCULATION OF THE TEMPERATURE DISTRIBUTION IN PARISON MOLD AND GLASS OBJECT IN MACHINES FORMING HOLLOW GLASSWARE (Berechnung der Temperaturverteilung in Vorform und Kulbel bei Hohlglasmaschinen). [1960] [39]p. 25 refs. Order from SLA mi$3.00, ph$6.30 61-10511

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 10, p. 402-413.

The space-time temperature distribution which appears during the preparation of glass objects in the parison mold and in the glass is mathematically ascertained. It is assumed that a thin heat-insulating layer can form between the hot glass and the inner wall of the mold. The relation is shown between the temperature distribution, the thermal constants of glass and mold and the working conditions prevailing in the preparation of glass objects is communicated. Special cases are numerically calculated with the aid of an electronic analogue computer. (Author)

61-10511

1. Glass--Processing
1. Deeg, E.





(Materials--Ceramics, TT, v. 5, no. 8)

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Brekhovskich, S. M.
SYNTHESIS AND PROPERTIES OF SEVERAL NEW GLASSES CONTAINING OXIDES OF BISMUTH, CADMIUM, BARIUM AND LEAD (Synthese und Eigenschaften Einiger Neuer Wismut-, Cadmium-, Barium- und Bleioxyd- Haltiger Glaser). [1960] [17]p. 12 refs.
Order from SLA mi$2.40, ph$3.30 61-10513

Trans. of Glastechnische Berichte (West Germany) 1959, v. 32, no. 11, p. 437-442.

This study deals with results of investigations of glasses of the $Bi_2O_3$-PbO-$SiO_2$ system, and the remarkable possibility of obtaining glasses having a density of approximately 8 grams per cubic centimeter in this system is discussed. (Author)

(Materials--Ceramics, TT, v. 5, no. 8)

61-10513

1. Glass--Materials
I. Brekhovskich, S. M.

151460

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Wargin, W. W. and Karapetjan, G. O.
ABSORPTION SPECTRA AND LUMINESCENCE OF $Ce$-CONTAINING GLASSES. 13p. (11 figs. omitted) 22 refs.
Order from SLA $1.60 62-14243

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 11, p. 443-450.

DESCRIPTORS: *Glass, *Luminescence, Spectrographic analysis, *Phosphorescent materials, *Cerium, Phosphates, Silicates, Borates, Crystals, *Absorption spectra.

The influence of glass composition, melting conditions and Ce-concentration on the absorption spectra, fluorescence and phosphorescence of Ce-glasses was studied. Specially pure raw materials were used in the batch. The absorption was measured on test pieces 0.1-0.5 mm (Materials—Ceramics, TT, v. 9, no. 4) (over)

62-14243

I. Wargin, W. W.
II. Karapetjan, G. O.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Influence of the Chemical Composition of Glass on the Adhesion of Polymers, by M. S. Aslanowa, 10 pp.

GERMAN, per, Glastech Berichte, Vol XXXII, No 11, 1959, pp 459-463.

ATS-8[illegible]G
ATS-716-GS
203,544

Sci
Jul 62
Vol 4, No 12

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Poraï-Koshits, E. A.
THE SUBMICROSCOPIC STRUCTURE OF SEVERAL COMPLEX GLASSES (Submikroskopische Struktur einiger Komplexer Gläser). [1962] [33]p. (foreign text included) 56 refs.
Order from SLA $3.60 62-18131

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1959, v. 32, no. 11, p. 450-459.

DESCRIPTORS: *Glass, Microstructure, *Porous glass, Heat treatment, Particles, Light, Reflection, Sodium compounds, Boron compounds, Silicates, Microanalysis.

A long discussion between the representatives of the "Crystallite" theory and those of the "network" theory led to the concept of the "Polymeric Crystallite" structure of single component glasses. The problem of the physical order in single component glasses was replaced by the problem of the chemical order in complex glasses. (Materials--Ceramics, TT, v. 9, no. 3) (over)

62-18131

1. Title: Vycor
I. Poraï-Koshits, E. A.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Special Forms of Glass Melting Furnaces, by H. Wickert.

GERMAN, per, Glastechnische Berichte, Vol XXXIII, No 5, 1959, pp 189-197.

CSIRO

Sci - Engr
Oct 61.

171, 352

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Schumacher, Leo and Schwiete, Hans-Ernst.
CONTRIBUTION TO THE STUDY OF ALKALI ATTACK ON FIREPOLISHED GLASS SURFACES
(Beitrag zum Laugenangriff auf Feuerpolierte Glasoberflächen). [1962] [23]p. (foreign text included)
10 refs.
Order from SLA $2.60 62-14490

Trans. of Glastechnische Berichte (West Germany)
1960, v. 33, no. 1, p. 1-7.

DESCRIPTORS: *Glass, *Surfaces, Gravimetric analysis, Sodium compounds, Hydroxides, Corrosion, Reagents.

These studies are concerned with the alkali attack on glass surfaces. This is carried out by weighing the test samples periodically and observing by the microscope. The microscopic studies confirm the assumption that the appearance of alkali attack closely re-
(Materials--Ceramics, TT, v. 8, no. 4) (over)

62-14490

I. Schumacher, L.
II. Schwiete, H.-E.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Jagdt, Reinhard.
INVESTIGATIONS OF RELAXATION PHENOMENA IN ALKALI-SILICATE GLASSES (Untersuchungen von Relaxationserscheinungen an Alkali-Silikat-Gläsern). Extract from thesis, Friedrich Schiller U., 1958. [1961] [30]p. 27 refs.
Order from SLA mi$2.60, ph$4.80 61-10696

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 1, p. 10-19.

Measurements are made of the temperature dependence of the internal friction and of the elastic modulus of alkali-silicate glasses at temperatures between -180°C. and the point of transformation. The simple alkali silicates show two pronounced maxima of damping, whereas the mixed alkali silicates show only one clear maximum, which, however, is enormously raised. Level and temperature position of the maxima depend on the alkali content. The course of the elastic modulus is likewise determined by the alkali concentration of the glasses. (Materials--Ceramics, TT, v. 3, no. 9)

61-10696

1. Glass--Temperature factors
2. Glass--Viscosity
3. Glass--Internal friction
I. Jagdt, R.
II. Friedrich Schiller U. (East Germany)

151824

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Krochmann, Juergen.
THE PHOTOMETRIC DESIGNATION AND CLASSIFICATION OF MATERIALS. [1962] 17p. 15 refs.
Order from SLA $1.60 62-14233

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 1, p. 20-24.

DESCRIPTORS: Construction, *Materials, Classification, *Photometers.

(Materials, TT, v. 8, no. 3)

62-14233

I. Krochmann, J.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Banerjee, Bhupati Kumar.
THE STUDY OF IRON CONTAINING GLASSES USING X-RAYS (Untersuchung Eisenhaltiger Gläser mit Röntgenstrahlen). [1962] [9]p. (foreign text included)
9 refs.
Order from SLA $1.10 62-16135

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 2, p. 45-47.

DESCRIPTORS: *Glass, *Iron, X-ray diffraction analysis, Alkali metal compounds, Borates, Microstructure.

Several interesting results from a study of iron containing glasses using X-ray diffraction photographs are given. Studied were the alakli borate glasses and devitrified test samples. The X-ray study could give no proof for the assumption that, in addition to the various states possible of the iron in the glass, colloidal iron
(Materials--Ceramics, TT, v. 9, no. 1) (over)

62-16135

1. Banerjee, B. K.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

DENSITY CHANGE OF LEAD GLASS THROUGH HEAT TREATMENT [Dichteanderung von Bleiglas durch Warmebehandlung]. [1961] [20]p. (21 refs. omitted).
Order from SLA mi$2.40, ph$3.30 61-10695

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33 [no. 2] p. 47-52.

Glass of composition 57% $SiO_2$, 30% PbO, 8% $K_2O$, 4% $Na_2O$, and 1% $R_2O_3$ was subjected to heat treatment and the volume changes were recorded. Results showed that the change in volume of glass was based on transitions from one energy level to another in the glass structure by the addition of sufficient activation energy, e.g., an increase of thermic motion.

(Materials--Ceramics, TT, v. 5, no. 11)

1. Glass--Temperature factors
2. Glass--Physical properties
I. Kishii, T.



APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Polishing of Glass, by E. Bruche, K. Peter.

GERMAN, per, Glastechnische Berichte, 1960, pp 37-45.

CSIRO

Sci - Engr
Oct 61

171, 626

SLA - 62-14232

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Infrared Investigations of Vitreous and Crystalline Specimens in the $KNO_3$-$Ca(NO_3)_2$ System, by O. Borgen, K. Grjotheim, S. Urnes, 8 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXIII, No 2, 1960, pp 52-55.

SLA 60-18163

196,884

Sci

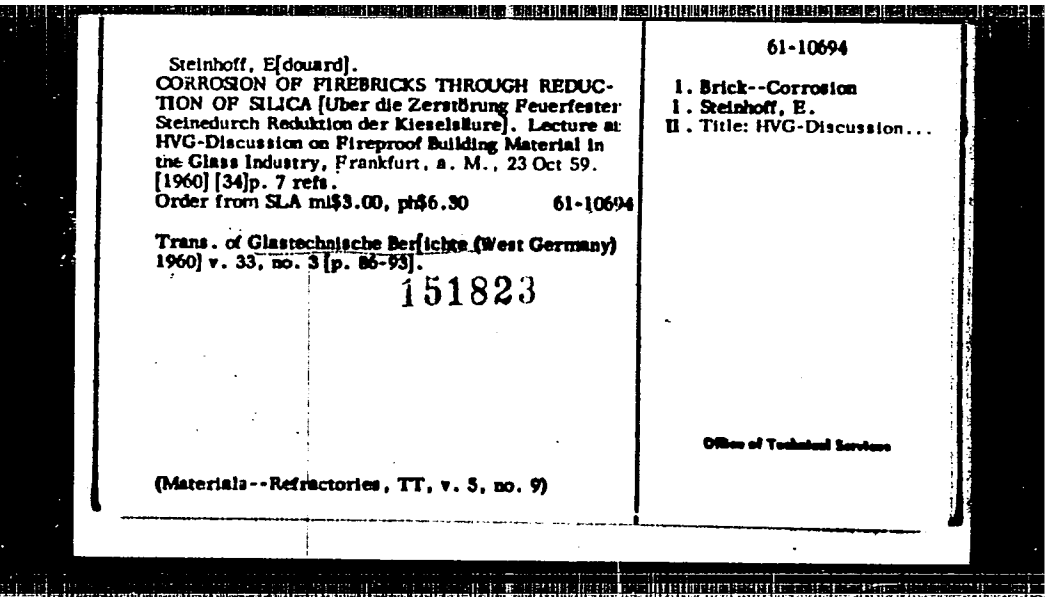
May 62

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Properties of Fireclay Tank Blocks, by U. Ehrcke. EUROPEAN, per, Glastechnische Berichte, Vol 33, 1960, pp 73-86.
NTC-71-16203-11B

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Steinhoff, E[douard].
CORROSION OF FIREBRICKS THROUGH REDUCTION OF SILICA [Uber die Zerstörung Feuerfester Steinedurch Reduktion der Kieselsäure]. Lecture at HVG-Discussion on Fireproof Building Material in the Glass Industry, Frankfurt, a. M., 23 Oct 59. [1960] [34]p. 7 refs.
Order from SLA mi$3.00, ph$6.30 61-10694

Trans. of Glastechnische Berichte (West Germany) 1960] v. 33, no. 3 [p. 86-93].

151823

(Materials--Refractories, TT, v. 5, no. 9)

61-10694

1. Brick--Corrosion
I. Steinhoff, E.
II. Title: HVG-Discussion...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Konopicky, Kamillo and Routschka, Gerald.
AN INVESTIGATION ON THE BEHAVIOR OF DIFFERENT QUALITIES OF REFRACTORY BRICK IN THE ARCH OF A SODIUM SILICATE TANK (Untersuchung des Verhaltens Verschiedener Steinqualitäten im Gewölbe einer Wasserglaswanne). [Paper presented] at the HVG Colloquium on Refractory Materials in the Glass Industry, Frankfurt a.M., 23 Oct 59. [28p] 6refs
Order from SLA $2.60 TT-64-16593

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 3, p. 93-101.

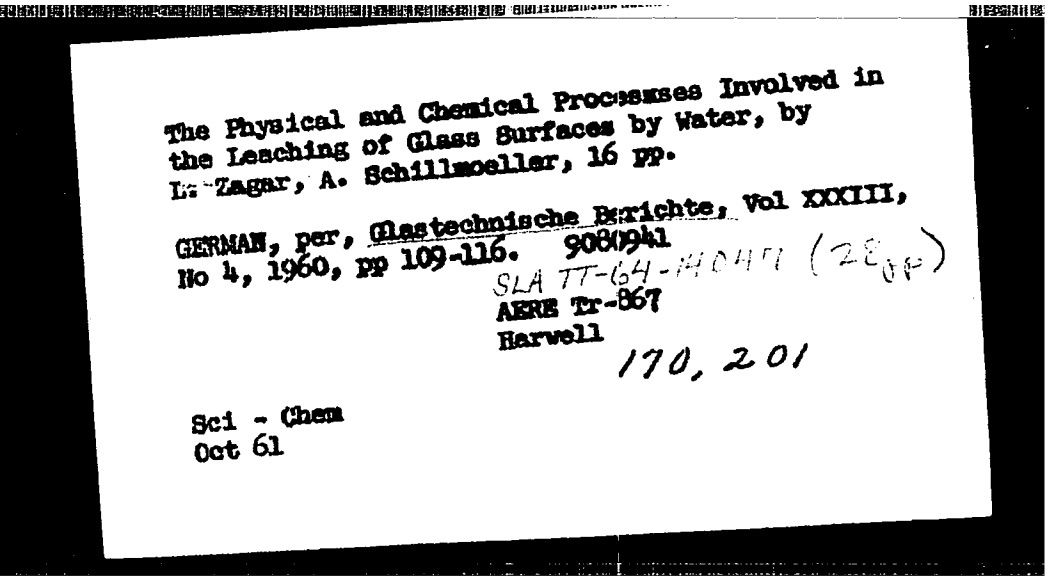
(Materials--Refractories, TT, v. 12, no. 3)

TT-64-16593

I. Konopicky, K.
II. Routschka, G.
III. Title: HVG Colloquium...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



The Physical and Chemical Processes Involved in the Leaching of Glass Surfaces by Water, by L. Zagar, A. Schillmoeller, 16 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXIII, No 4, 1960, pp 109-116. 9080941

SLA TT-64-14047 (28 pp)
AERE Tr-867
Harwell

170, 201

Sci - Chem
Oct 61

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Löffler, Johannes.
INFLUENCE OF DEVITRIFICATION ON THE HOMOGENEITY OF FOURCAULT GLASS. 25 July 60, 5p. (10 figs. omitted) 5 refs.
Order from SLA $1.10 62-14217

Trans. of Glastechn[isache] Ber[ichte] (West Germany) 1960, v. 33, no. 4, p. 117-120.

DESCRIPTORS: *Glass, Production, Drawing (Machine processing), Crystals, Crystallization.

(Materials--Ceramics, TT, v. 8, no. 9)

62-14217

1. Title: Fourcault machines
1. Löffler, J.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Trier, Wolfgang.
PHOTOGRAPHING FLAMES (Fotografieren von Flammen). Enlarged Version of Lecture at Symposium on Glass Technology (no. 33) Hamburg, 17 Mar 59. [1961] [17]p. 3 refs.
Order from SLA mi$2.40, ph$3.30 61-10693

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 4, p. 127-132.

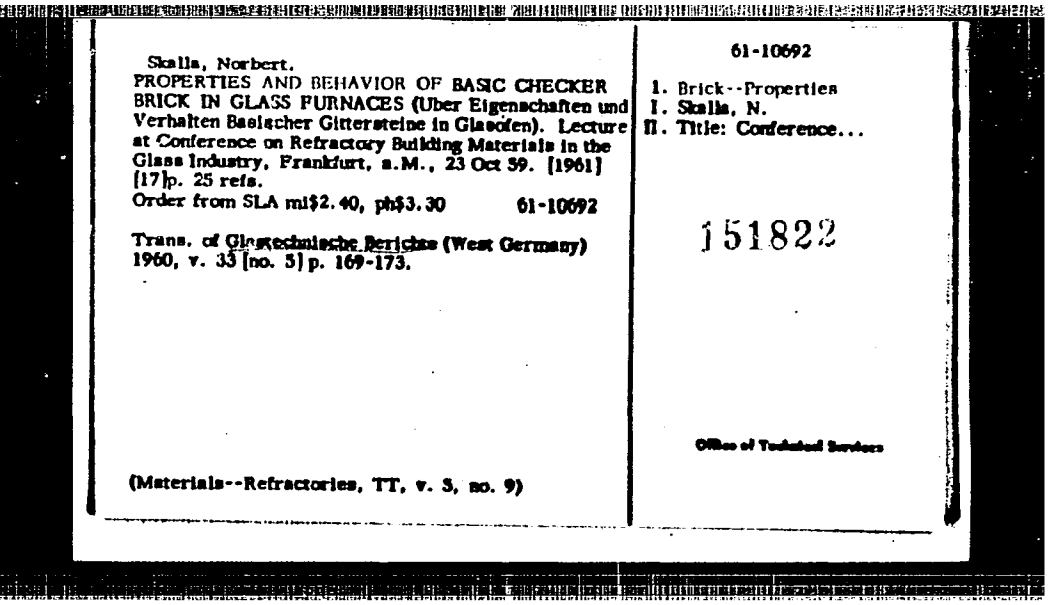
Flames in glass furnaces can be photographed with relatively simple aids. When working rapidly it is sufficient to have a protective screen for the camera. Color films produce more contrasty pictures than black-and-white films, especially when a light blue filter is used. The exposure times ought to be as brief as possible. Rapidly streaming flames, such as oil flames, require exposures of 1/1000 second and less in order to prevent blurring due to movement. The lens opening should be selected in accordance with the nature and the brightness of the flame. (Author)
(Materials--Ceramics, TT, v. 5, no. 10)

1. Flames--Photographic analysis
2. Glass--Production
I. Trier, W.
II. Title: Symposium...





APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Skalla, Norbert.
PROPERTIES AND BEHAVIOR OF BASIC CHECKER BRICK IN GLASS FURNACES (Uber Eigenschaften und Verhalten Basischer Gittersteine in Glasofen). Lecture at Conference on Refractory Building Materials in the Glass Industry, Frankfurt, a.M., 23 Oct 59. [1961] [17]p. 25 refs.
Order from SLA mi$2.40, ph$3.30 61-10692

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33 [no. 5] p. 169-173.

(Materials--Refractories, TT, v. 5, no. 9)

61-10692

1. Brick--Properties
I. Skalla, N.
II. Title: Conference...

151822

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

On the Behavior of Magnesite Brick Which are Low in Iron Content, in the Checker Chambers of Regenerative Glass Melting Furnaces, by W. Baumgart. EUROPEAN, per, Glastechnische Berichte, Vol 33, 1960, pp 173-180.

NTC-71-16238-11B

INSDOC/T 45-45

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Influence of Bank Block Cooling on the Temperature Inside the Blocks. Measuring Results, by R. Meister.
EUROPEAN, per, Glastechnische Berichte, Vol 33, 1960, pp 182-186.
NTC-71-16242-11B

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Hegemann, Fredrich and Osterried, Otto.
THE DETERMINATION OF SODIUM AND POTASSIUM IN GLASSES WITH THE ZEISS FILTER FLAME PHOTOMETER (Die Bestimmung von Natrium und Kalium in Gläsern mit dem Zeiss'schen Filterflammenphotometer). [1961] [19]p. (7 tables omitted) 19 refs.
Order from SLA mi$2.40, ph$3.30 61-10691

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 6, p. 201-206.

A procedure is given for the use of the PF 5 flame photometer in the determination of sodium and potassium in glasses with a propane-air flame as source of excitation. With the aid of this apparatus, the sodium and potassium contents can be ascertained rapidly and with sufficient accuracy, even when the concentration of interfering ions is not reproduced in the calibration solutions. (Authors)

(Materials--Ceramics, TT, v. 5, no. 9)

61-10691

1. Sodium--Determination
2. Potassium--Determination
3. Glass--Chemical analysis
4. Photometers--Applications
I. Hegemann, F.
II. Osterried, O.

151821

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Lengyel, Bela, Dobos, Sandor, and Till, Ferenc.
METHOD OF DETERMINING THE RATE OF SOLUTION OF GLASSES BY USING A FLAME PHOTOMETER OF HIGH SENSITIVITY. 26 Aug 60, 13p. (12 figs. omitted) 28 refs.
Order from SLA $1.60 62-14216

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 6, p. 206-213.

DESCRIPTORS: *Glass, Solubility, Determination, *Flames, *Spectrophotometers, Photometers.

(Materials--Ceramics, TT, v. 8, no. 4)

62-14216

I. Lengyel, B.
II. Dobos, S.
III. Till, F.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Prins, Walter.
ON THE USE OF NEOPHAN GLASS TO IMPROVE THE ACCURACY OF THE VOLHARD METHOD OF TITRATING SILVER (Einsatz von Neophanglasbrillen zur Verbesserung der Genauigkeit der Volhardschen Silbertitrationsmethode). [12p] (foreign text included)
5refs
Order from SLA $1.60 TT-64-16530

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1960, v. 33, no. 6, p. 224-227.

(Chemistry--Analytical, TT, v. 12, no. 4)

TT-64-16530

I. Prinz, W.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Arrangement for Measuring High Viscosities of Glasses with Great Deformation Under Constant Stress, by H.J. Oel.
GERMAN, per, Glastechnische Berichte, Vol 33, No 6, 1960, pp 219-224.
NTC 69-11066-11B

Sci/Chem/MAT
July 69

387-358

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

The Structural Pattern of Glass in the Course of Its Development, by K. Kuehne.
GERMAN, per, Glastechnische Berichte, Vol 33, No 7, 1960, pp 241-245.
NTC 69-11065-11B

Sci/Chem MDT
July 69

387-357

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Krŏger, Carl and Stratmann, Jürgen.
THE DETERMINATION BY DIFFERENTIAL THERMAL ANALYSIS OF RESIDUAL AMOUNTS OF QUARTZ IN EXHAUSTED SILICATE BATCHES (Die Differential-thermoanalytische Bestimmung von Restquarzmengnen in Abreagierten Silikatgemengen). [1961] [10]p. 11 refs.
Order from SLA mi$1.80, ph$1.80 61-10690

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 7, p. 250-252.

The amounts of residual quartz which remain in disilicate-quartz mixtures are tempered at 550°C were determined with the aid of differential thermal analysis, and the time dependence of the quartz dissolution was compared to the dissolving velocity of the quartz (determined by X-ray methods) in the eutectic disilicate-quartz mixture. At temperatures in excess of the quartz-tridymite reaction, the residual amounts of quartz correspond to the velocity of transformation. (Materials--Ceramics, TT, v. 5, no. 10) (over)

61-10690

1. Quartz--Determination
I. Krŏger, C
II. Stratmann, J.

15160

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Herrmann, Horst.
ON THE EFFECT OF THE SHAPE OF SAMPLES, DIMENSIONS AND COOLING CONDITIONS ON THE ELASTIC BIREFRINGENCE IN GLASS-TO-METAL SEALS [Über den Einfluss von Probenform, Abmessungen und Abkühlungsbedingungen auf die Spannungsdoppelbrechung in Glass-Metall-Verbindungen] [1961] [16]p. 12 refs.
Order from SLA mi$2.40, ph$3.30 61-10689

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 7, p. 252-257.

The application of photoelastic measurements to control the thermal expansion of sealing materials (glass and metal) is discussed. A few types and shapes of samples having appropriate properties for conducting such measurements are considered and the different effects on the elastic birefringence in the glass are examined. Knowledge of these effects allows comparisons between the measured values obtained on samples of different shape and size. (Author)
(Materials--Ceramics, TT, v. 5, no. 10)

61-10689

1. Glass--Bonding
2. Metals--Bonding
1. Herrmann, H.



APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Düsing, Werner.
A NEW CHROMIUM-FREE, PLATEABLE Fe-Ni ALLOY AS A SEALING ALLOY FOR LEAD GLASS. 9 Sep 60, 6p. (10 figs. omitted) 3 refs.
Order from SLA $1.10 62-14219

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 7, p. 257-261.

DESCRIPTORS: *Glass, *Iron alloys, *Nickel alloys, Plating, Seals, *Electron tubes.

Sealing alloys, free from chromium, capable of being faultlessly electroplated are used for the glass-metal envelopes of microwave tubes of soft glass. The new Fe-Ni-Mn alloy (47/48/5) satisfies these requirements and its expansion coefficient is closer to that of the commonly used lead glass than the chromium-free Fe-Ni alloys used hitherto. (Author)
(Materials--Ceramics, TT, v. 8, no. 10)

62-14219

I. Düsing, W.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Löffler, Johannes.
REACTION OF FIRECLAY WITH A LIMITED AMOUNT OF GLASS MELT (Reaktion von Schamotte mit einer Begrenzten Menge Glasschmelze). [1961] [9]p. (foreign text included) 4 refs.
Order from SLA $1.10 61-14727

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 8, p. 281-283.

DESCRIPTORS: *Brick, *Glass, Chemical reactions.

When a fireclay body reacts with a limited amount of stagnant glass, the glass is locally impoverished in alkali, and the striae originating there exhibit the characteristic aluminous layers as well as those impoverished in alkali, i.e. enriched in $SiO_2$. This can be demonstrated in the glass from a cavity in a floater. The threads from such a hollow space normally have an aluminous core and an envelope of which the $SiO_2$ content is increased by 0.5 to 1%. (Author)
(Materials--Ceramics, TT, v. 6, no. 1)

61-14727

1. Title: Fireclay
1. Löffler, J.

161743

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Eyber, Gerhard.
THERMODYNAMIC OBSERVATIONS ON CORROSION PROCESSES IN GLASS TANKS (Thermodynamische Betrachtung über Korrosionsvorgänge in Glasschmelzöfen). [Paper] presented to the Glass Technology Convention (no. 33) Hamburg, 17 Mar 59. [8p] (foreign text included) 5refs
Order from SLA $1.10 TT-64-16526

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 8, p. 283-285.

(Materials--Ceramics, TT, v. 12, no. 4)

TT-64-16526

I. Eyber, G.
II. Title: Glass ...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Bornett, Joachim.
THE MEDICAL SIGNIFICANCE OF HEAT RADIATION IN GLASS AND IRON PLANTS. 30 Nov 60 [19]p. 20 refs.
Order from SLA $1.60 62-14220

Trans. of Glastechnische] Berichte] (West Germany) 1960, v. 33, no. 9, p. 296-303

DESCRIPTORS: *Thermal radiation, Foundries, Refineries, *Iron, *Glass, *Industrial medicine.

In steel and glass plants, the heat radiation and the micro atmospheric conditions were determined at the work areas. Blast furnace smelters and ingot shear workers were more exposed to rays than hollow and rod glass makers; these in turn [illegible] who work in the open under the action of the sun. Clinical findings showed that working in heat for many years produced in many cases
(Biological Sciences--Medical Specialties, TT, v. 3, no. 9)
(over)

62-14220

I. Borne.., J.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Deeg, Emil.
A SIMPLE METHOD FOR TESTING INTERNAL STRESSES OCCURRING IN NONTRANSPARENT GLASSES AND PLASTICS (Ein Einfaches Verfahren zur Spannungsprüfung in Undurchsichtigen Gläsern und Kunststoffen). Extract from address by Adolph Dietzel at Symposium on Glass Technology (no. 33) Hamburg, 18 Mar 59. [1961] [5]p. (foreign text included).
Order from SLA mi$1.80, ph$1.80 61-10688

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 9, p. 331-332.

A description is given of an arrangement of infrared radiators and receivers which is suitable for photoelastic investigations. Stresses in translucent and dark-colored glasses can be rendered visible with the aid of an image converter which is sensitive in the infrared spectral range.

(Materials--Ceramics, TT, v. 5, no. 10)

61-10688

1. Glass--Stresses
2. Plastics--Stresses
3. Title: Photoelastic method
I. Deeg, E.
II. Dietzel, A.
III. Title: Symposium...

151663

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Gellmann, Wilhelm and Tolg, Gunther.
THE DETERMINATION OF THE SULFATE CONTENT. Pt. 2 of Contribution to Microsilicate Analysis. [1961] 17p. (4 tables, 2 figs. 2 footnotes omitted). Order from SLA mi$2.40, ph$3.30 61-14469

Trans. of Glastechnische Berichte (West Germany), 1960, v. 33, no. 9, p. 332-338.

After digesting the silicate with hydrofluoric and perchloric acids, the sulfate is reduced to $H_2S$ by treating it with a suitable reducing agent. The $H_2S$ is then absorbed in a sodium hydroxide solution and determined by volumetric analysis. This method can be used in the range from 1 to 1000 ug $SO_3$ and, with samples weighing between 1 and 200 mg, 0.05 to 0001% $SO_3$ can be detected. The relative standard deviation of this method is dependent upon the total quantity being determined and lies between 1 and 3%. (Author)

(Chemistry--Analytical, TT, v. 5, no. 12)

61-14469

1. Sulfates--Determination
2. Glass-Chemical analysis
I. Gellmann, W.
II. Tolg, G.
III. Title: Contribution...

151879

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Knapp, Oscar.
CALCULATION OF THE VISCOSITY OF ALKALI AND ALKALI-LIME GLASSES FROM THEIR COMPOSITION [Berechnung der Zähigkeit von Alkali- und Alkalikalkgläsern aus ihrer Zusammensetzung].
[1961] [5]p. 2 refs.
Order from SLA mi$1.80, ph$1.80 61-10687

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 9, p. 338-339.
Pub. in greater detail in Hungarian in Epitőanyag, (Hungary) 1959, v. 11, p. 393-396.

(Materials--Ceramics, TT, v. 5, no. 9)

61-10687

1. Glass--Viscosity
1. Knapp, O.

151820

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Konopicky, Kamillo and Wohlleben, Karl.
STUDIES ON THE TEMPERATURE DEPENDENCE OF THE TORSIONAL MODULUS OF FIRECLAY BRICKS (Untersuchungen zum Gang des Torsionsmoduls von Schamottesteinen mit der Temperatur). [1961] [20]p. 32 refs.
Order from SLA mi$2.40, ph$3.30 61-10686

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 10, p. 357-363.

The temperature dependence of such elastic constants as the elastic and torsional moduli has been studied for fireclay glass-tank bricks of different contents of alumina. The measurements obtained by torsional, bending, and dynamic methods and tests are compared with the aim of establishing whether the size of the test piece affects the results of measurement and what effect the amount of load has on the course of the torsional modulus as a function of the temperature. Even at room temperature the static method of measurement produces
(Mate... ls--Refractories, TT, v. 5, no. 10) (over)

61-10686

1. Bricks--Temperature factors
I. Konopicky, K.
II. Wohlleben, K.

151602

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Theoretical Investigation of the Thermal Stresses in Tank Blocks During Tempering, by G. Sonntag. EUROPEAN, per, Glastechnische Berichte, Vol 33, 1960, pp 363-369.
NTC-71-16204-11B

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Fischer, Joseph and Kropp, Rudolf.
FLAME SPECTROMETRY AS A PROCESS IN MODERN CHEMICAL ANALYSIS. 13 Dec 60 [11p. (Figs. omitted) 11 refs.
Order from SLA $1.60 62-14234

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 10, p. 380-387.

DESCRIPTORS: *Chemical analysis, *Flames, Alkali earths, Chemical elements, Ionization, Spectrographic data.

(Chemistry--Analytical, TT, v. 8, no. 9)

62-14234

I. Fischer, J.
II. Kropp, R.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Trier, Wolfgang.
GLASS FLOWS: THEIR SIGNIFICANCE AND MEASUREMENT. 26 Jan 61, 18p. (14 figs. omitted) 22 refs. Order from SLA $1.60 62-14240

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 11, p. 401-411.

DESCRIPTORS: *Glass, Melting, Tanks, Measurement, *Flowmeters.

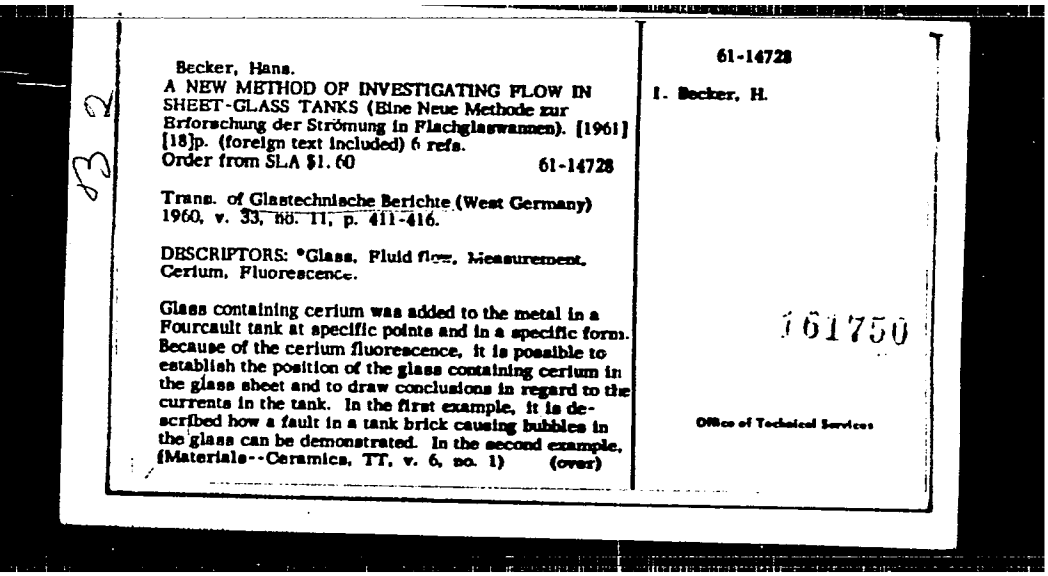
(Materials--Ceramics, TT, v. 8, no. 4)

62-14240

1. Trier, W.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Becker, Hans.
A NEW METHOD OF INVESTIGATING FLOW IN SHEET-GLASS TANKS (Eine Neue Methode zur Erforschung der Strömung in Flachglaswannen). [1961] [18]p. (foreign text included) 6 refs.
Order from SLA $1.60 61-14728

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 11, p. 411-416.

DESCRIPTORS: *Glass, Fluid flow, Measurement, Cerium, Fluorescence.

Glass containing cerium was added to the metal in a Fourcault tank at specific points and in a specific form. Because of the cerium fluorescence, it is possible to establish the position of the glass containing cerium in the glass sheet and to draw conclusions in regard to the currents in the tank. In the first example, it is described how a fault in a tank brick causing bubbles in the glass can be demonstrated. In the second example, [Materials--Ceramics, TT, v. 6, no. 1) (over)

61-14728

I. Becker, H.

161750

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Unger, Leopold.
THE USE OF RADIOACTIVE ISOTOPE FOR FLOW INVESTIGATIONS IN GLASS MELTING TROUGHS (Anwendung Radioaktiver Isotope zu Strömungsuntersuchungen in Glasschmelzwannen). Lecture at Glastechnical Convention (no. 34) Berlin, 4 May 60. [1963] [17]p. (foreign text included) 5 refs.
Order from SLA $1.60 63-14066

Trans. of Glastechnische Ber[ichte] (West Germany) 1960, v. 33, no. 11, p. 416-421.

DESCRIPTORS: *Glass, *Radioactive isotopes, Melting, Fluid flow, Test equipment, Industrial equipment.

Flow investigations on glass melting troughs with radioactive substances are described. The advantages of this procedure consist in that the demonstration of the radioactive material is very sensitive, the measure-
(Materials--Ceramics, TT, v. 10, no. 5) (over)

63-14066

I. Unger, L.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Jebsen-Marwedel, Hans.
MATERIAL TRANSPORT DUE TO FORMATION OF NEW BOUNDARY SURFACES AND DOMAINS ON THE SURFACE OF VISCOUS MEDIA (MODEL LIQUID: LACQUER) (Materialtransport über die Neubildung von Grenzflächen und Parzellen an der Oberfläche Zähflüssiger Medien). Modified and shortened version of a lecture from Glass Technology Meeting (no. 34) Berlin, 3 May 60. [1963] [19p] (foreign text included) 16refs
Order from SLA $1.60 TT-63-20366

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1960, v. 33, no. 11, p. 421-425.

DESCRIPTORS: *Glass, Surface properties, Models (Simulations), *Fluid flow, Shear stresses, Photographic analysis.

(Materials--Ceramics, TT, v. 11, no. 3) (over)

TT-63-20366

1. Title: Flow visualization
I. Jebsen-Marwedel, H.
II. Title: Glass...

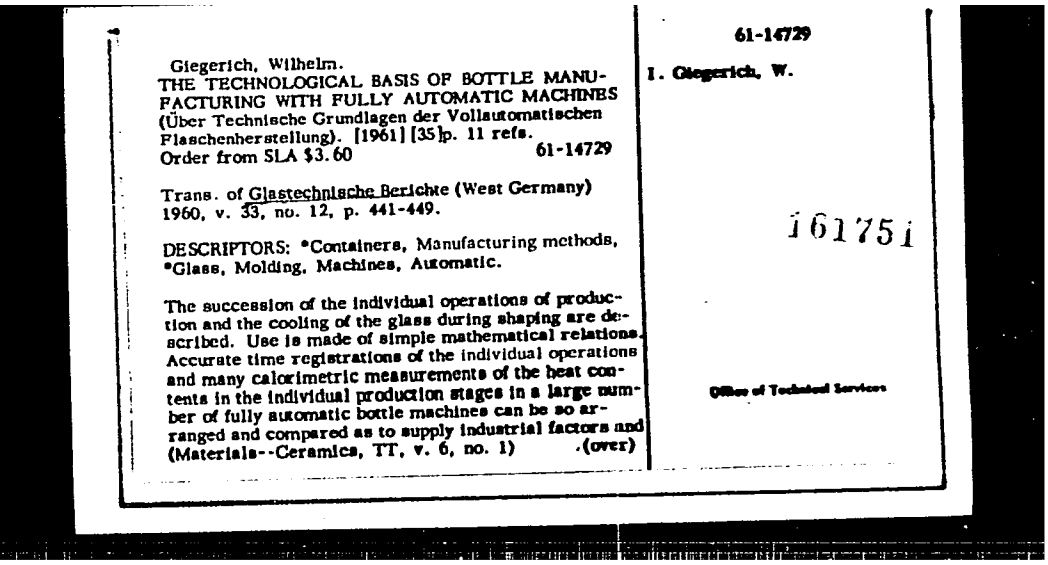
Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

It was shown that the schlieren-eddy phenomenon occurs in all pairs of liquids which exhibit dynactive behavior. Therefore in principle, observations made on readily available materials can be applied to processes taking place in the difficultly accessible glass melt. Spontaneous boundary deformations and cell formation observed on layers of lacquer help to shape our views on material exchange problems, material transport, and cell formation on the surface of the melt. The details can be recorded photographically by adding pigments to the partners. The arrangement of layers near the surface is controlled primarily through increased boundary surfaces in the form of flow breaches caused by shear stresses (and secondarily through diffusion). (Author)

PB- TT-63-20366

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4



Giegerich, Wilhelm.
THE TECHNOLOGICAL BASIS OF BOTTLE MANUFACTURING WITH FULLY AUTOMATIC MACHINES (Über Technische Grundlagen der Vollautomatischen Flaschenherstellung). [1961] [35]p. 11 refs.
Order from SLA $3.60 61-14729

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 12, p. 441-449.

DESCRIPTORS: *Containers, Manufacturing methods, *Glass, Molding, Machines, Automatic.

The succession of the individual operations of production and the cooling of the glass during shaping are described. Use is made of simple mathematical relations. Accurate time registrations of the individual operations and many calorimetric measurements of the heat contents in the individual production stages in a large number of fully automatic bottle machines can be so arranged and compared as to supply industrial factors and (Materials--Ceramics, TT, v. 6, no. 1) (over)

61-14729

I. Giegerich, W.

161751

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Trier, Wolfgang.
TEMPERATURE DISTRIBUTION AND HEAT FLOW IN GLASS IN THE GATHERING MOLD OF HOLLOW GLASS MACHINES. 28 Feb 61. 12p. (12 figs. omitted) 9 refs.
Order from SLA $1.60 62-14222

Trans. of Glastechnische Berichte (West Germany) 1960, v. 33, no. 12, p. 449-456.

DESCRIPTORS: *Glass, Cooling, Heat transfer, Viscosity, Molding, Machines.

By means of a novel puncture method the cooling of a 45 mm thick glass cylinder at about 1100°C in a modified gathering mold has been studied under conditions comparable to those existing in the machine. The viscosity distribution was measured in green glass and white glass and the temperature distribution (Materials--Ceramics, TT, v. 8, no. 10) (over)

62-14222

I. Trier, W.



APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Klemm, Werner and Volkmann, Harold.
ELECTRON MICROSCOPE STUDIES ON THE STRUCTURE OF GLASS-CRYSTALLINE MATERIALS (Elektronenmikroskopische Untersuchungen über den Aufbau Glasig-Kristalliner Massen). [1963] [25p] (foreign text included) 11refs
Order from SLA $2.60 TT-64-14074

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1961, v. 24, no. 3, p. 152-159.

(Materials--Ceramics, TT, v. 12, no. 1)

TT-64-14074

I. Klemm, W.
II. Volkmann, H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

The Behavior of Silica Bricks in Glass Tank Furnaces for Soda-Lime Glass, by K. Konopicky, I. Patzak. GERMAN, per, Glastechnische Berichte, Vol 34, No 1, 1961, pp 1-15.
NTC 69-11117-11B

Sci/Mat
July 69

387-362

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Several Studies of Silica Bricks From the Crowns of Glass Tanks at Different Working Temperatures, by H. F. Reich.
EUROPEAN, per, Glastechnische Berichte, Vol 34,1961, pp 15-27.
NTC-71-16237-11B

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

On the Glass Phase in Fusion Cast Tank Blocks, by
H. E. Schwiete, 24 p.
GERMAN, per, Glastechnische Berichte, Vol XXXIV,
No 1, 1961, pp 30-37.
SLA TT 66-10674

Sci-M&M
Jun 66

304,127

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Dietzel, A. and Coenen, M.
TRIVALENT COBALT IN GLASSES WITH HIGH ALKALI CONTENT. [1963]. BGIRA/Tr/63/11; no. 544.
Order from BGIRA BGIRA-544

Trans. of Glastechnische Berichte (West Germany) 1961, v. 34, no. 2, p. 49-55.

DESCRIPTORS: *Cobalt, *Valence, *Glass, *Alkali metal compounds, Alkali metals.

(Materials--Ceramic , TT, v. 10, no. 8)

63-17860

I. Dietzel, A.
II. Coenen, M.
III. BGIRA/Tr/63/11
IV. BGIRA-544
V. British Glass Industry Research Association

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

The Indentation Microhardness of Some Silicate Glasses and Its Atomic Interpretation, by A. Petzold, F.G. Wihsmann.
GERMAN, per, Glastechnische Berichte, Vol 34, No 2, 1961, pp 56-71.
NTC 69-11093-11B

Sci/Chem
July 69

387-360

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Wagenfeld, Wilhelm.
FACTORY GOODS (Fabrikwaren). [1963] [12p]
(foreign text included)
Order from SLA $1.60 TT-64-14048

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1961, v. 34, no. 2, p. 72-74.

(Social Sciences, TT, v. 11, no. 12)

TT-64-14048

I. Wagenfeld, W.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Schuster, Erich and Reitmayer, Franz.
THE CHANGE IN THE REFRACTIVE INDEX OF GLASSES PRODUCED BY UNIDIMENSIONAL COMPRESSIVE OR TENSILE STRESSES (Die Anderung der Lichtbrechung von Gläsern bei Eindimensionaler Druck- bzw. Zug-Beanspruchung).
[1964] [13p] (foreign text included) 3refs
Order from SLA $1.60 TT-64-10547

Trans. of Glastechn[ische] Ber[ichte] (West Germany)
1961, v. 34, no. 5, p. 130-133

(Physics--Optics, TT, v. 12, no. 2)

TT-64-10547

I. Schuster, E.
II. Reitmayer, F.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Studies on Glass Surfaces Using Radioactive Phosphorus, by Ernst Baier, Peter Hausmann, 21 pp.

GERMAN, per, Glastechnische Berichte, Vol CCCIV, No 3, 1961, pp 106-152.

SLA 61-20843

Sci
Mar 62
Vol. VII, No 3

188,071

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

AEC (SC-T-722462) DETERMINATION OF THE WATER CONTENT OF GLASSES BY NUCLEAR MAGNETIC RESONANCE AND COMPARISON OF THE RESULTS WITH MEASUREMENTS OF THE INFRARED OH BANDS. Meyer, Friedrich; Spalthoff, Werner. Translated for Sandia Labs., Albuquerque, N. Mex., from Glastech. Ber.; 34: 184-91(1961). 23p. Dep. NTIS.

Chemistry (analytical); translations 07

MN-4 P NSA

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Rapid Indicator Radiation Pyrometer for Temperature Measurement Between 300 and 900° C., by N. Neuroth. EUROPEAN, per, Glastechnische Berichte, Vol 34, 1961, pp 197-200.
NTC-71-16240-14B

Jan 72

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Boneff, Stoyan and Schwiete, Hans-Ernst.
ON THE FORMATION OF CURLY SHAVINGS ON SCRATCHING GLASS SURFACES (Zur Bildung von Spanlocken beim Ritzen von Glasoberflachen). [1963] [10p] (foreign text included) 3refs
Order from SLA $1.10 TT-64-14042

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1961, v. 34, no. 4, p. 216-219.

(Materials--Ceramics, TT, v. 11, no. 12)

TT-64-14042

I. Boneff, S.
II. Schwiete, H.-E.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

The Effect of Traces of Metals on the Hot Leaching of Silicate Glasses, by E. Wiegel.
GERMAN, per, Glastechnische Berichte, Vol 34, No 5, 1961, pp 259-268.
NTC 69-11129-11B

Sci/Mat
July 69

387-369

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Vapor and Decomposition Pressures of Several of the Alkali Compounds Used in Glasses, by C. Kroeger, J. Stratmann, 35 p. GERMAN, per, Glastechnische Berichte, Vol 34, No 6, 1961, pp 311-320. SLA TT-66-10680

Sci-M&M
Jul 66

306,005

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Sand-Quality Requirements in the Manufacture of Plate Glass, by H. Geulen.
GERMAN, per, Glastechnicsche Berichte, Vol 34, No 7, 1961, pp 345-348.
NTC 69-11128-11B

Sci/Mat
July 69

387-368

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Selection of Raw Materials, Batch Preparation and Transport in a Pot Furnace Factory, by A. Schillmoeller. GERMAN, per, Glastechnische Berichte, Vol 34, No 7, 1961, pp 348-353.
NTC 69-11127-11B

Sci/Mat
July 69

387-367

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Schulze, Karl Heinz.
TECHNICAL WEIGHING PROBLEMS IN GLASS BATCHING PLANTS (Wiegetechnische Probleme bei Glasgemengeanlagen). [1963] [25p] (foreign text included)
Order from SLA $2.60 TT-64-14053

Trans. of Glastechn[ische] Ber[ichte] (West Germany) 1961, v. 34, no. 7, p. 363-369.

Materials--Ceramics, TT, v. 12, no. 1)

TT-64-14053

I. Schulze, K. H.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Thermal and Mechanical Studies of Akkali-Borate Glasses, by K.-H. Karsch, E. Jenckel.
GERMAN, per, Glastechnische Berichte, Vol 34, No 8, 1961, pp 397-408.
MTC 69-11126-11B

Sci/Mat

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Water Release by Sodium Silicate Glass, by
S. Garbe.
GERMAN, per, Glastechnische Berichte, Vol 34,
1961, pp 413-417.
Chem Trans Sv 2694

319,988

Sci - Chemistry
Mar 67

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

The Development of the Glass-Melting Tank, by
R. Guenther.
GERMAN, per, Glastechnische Berichte, Vol 34, No 10,
1961, pp 471-482.
NTC 69-11121-11B

Sci/Mat
July 69

387-365

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Experiments to Eliminate States of Stress in Glass with the Aid of Ultrasonics, by H.-U. Borgstedt. GERMAN, per, Glastechnische Berichte, Vol 34, No 11, 1961, pp 529-534.
NTC 69-11118-11B

Sci/Mat
July 69

387-364

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Glass Working by Impact Lapping at Ultrasonic Frequency, by D. Blanck, 9 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXIV, No 11, 1961, pp 534-44. (9208239)

AEC-SCL-Tr-470

Sci - Phys

Jun 63

234,294

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

Formation of Stresses in Plastic Resins with Embedded Glass Fibers, by A, Matting, H. Haferkamp.
GERMAN, per, Glastechnische Berichte, Vol 34, No 11, 1961, pp. 547-8.
FTC 69-11120-11I

Sci-Mat
July 69

388,405

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4

On the Effect of Permanent Technical Stresses on a Glass Band, by P. Bayersdorfer.
GERMAN, per, Glastechnische Berichte, Vol 34, No 11, 1961, pp 548-549.
FTC 69-11119-11B

Sci/Mat
July 69

387-363

APPROVED FOR RELEASE: Thursday, July 11, 2002 CIA-RDP84-00581R000401180019-4